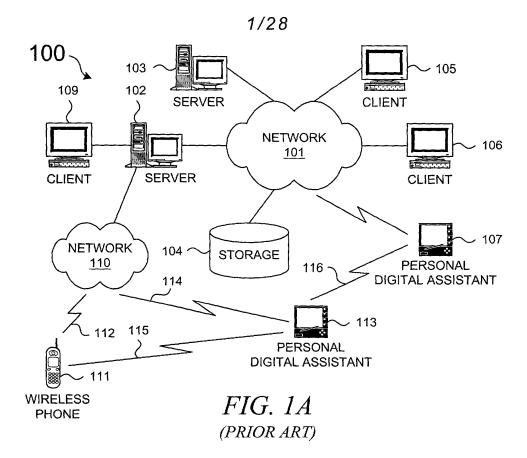
Method and system for a foreach mechanism in a fragment link to efficiently cache portal content



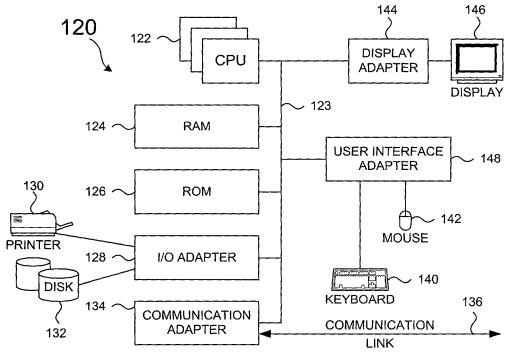


FIG. 1B (PRIOR ART)

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in a fragment link to efficiently cache portal content

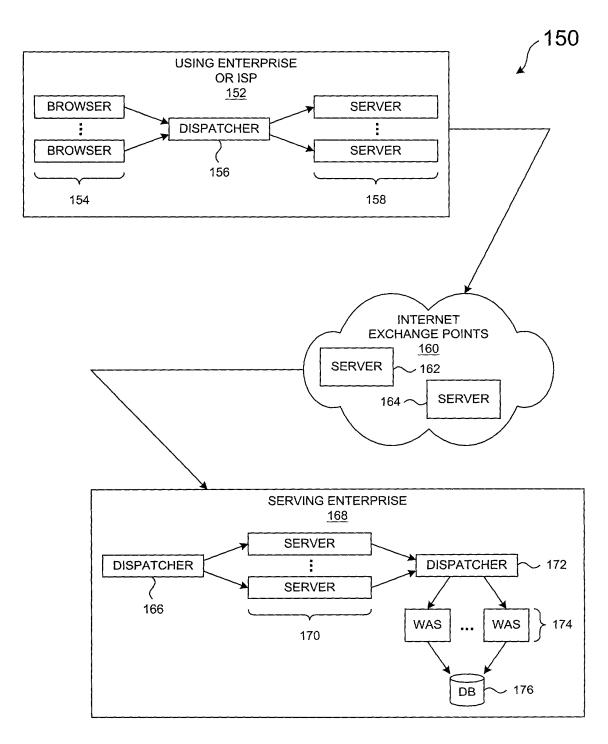
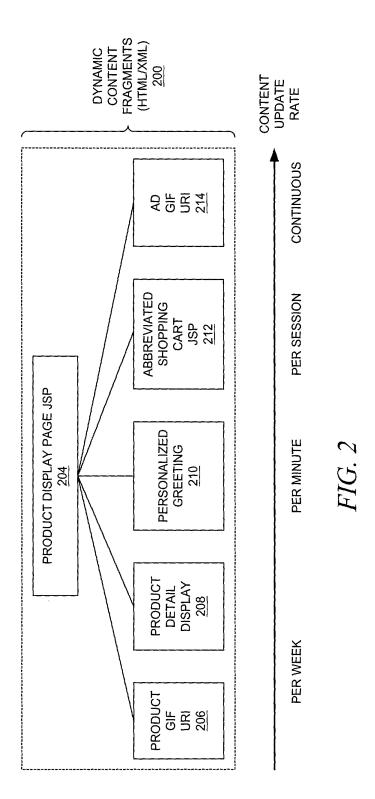


FIG. 1C (PRIOR ART)

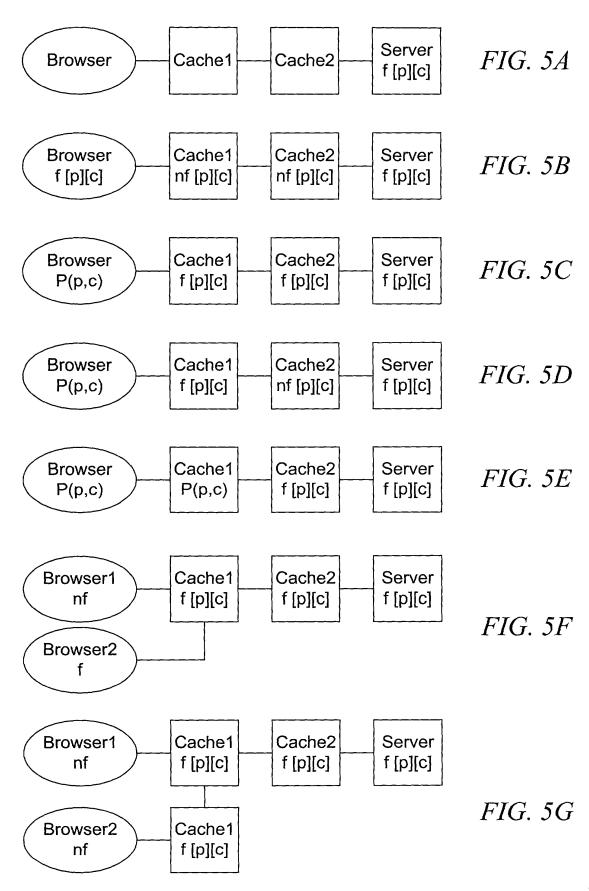


Method and system for a foreach mechanism in a fragment link to efficiently cache portal content

```
<!ELEMENT FRAGMENTLINK - O EMPTY -- fragment directive -->
<!ATTLIST FRAGMENTLINK
                 #REQUIRED -- primary URL of the fragment
       %URL
src
alt
       %URL
                 #IMPLIED -- alternate URL of the fragment
       %parmlist #IMPLIED -- query parms applied to src
parms
                 #IMPLIED -- name of cookie used for
foreach %string
                            -- foreach processing
showlink no comment CDATA #IMPLIED
  -- whether this fragmentlink tag should be included as a
  -- comment in the assembled page
                 #IMPLIED -- unique name of this element
id
                 #IMPLIED -- class name of this element
       CDATA
class
<!ENTITY % parmlist "CDATA"
 -- Space delimited list of form element names
Start tag: required; End tag: forbidden.
                          FIG 3
Fragment = "Fragment" ":" 1#fragment-directive
fragment-directive = fragment-request-directive
                    | fragment-response-directive
fragment-response-directive = "contains-fragments"
                            | "dependencies" "=" quoted-list
                             "cacheid" "=" rulelist
fragment-request-directive = "supports-fragments"
quoted-list = <"> 1#string <">
rulelist = <"> 1#cacherule <">
cacherule = "(" parmrule ["," cookierule] ")" | "URL"
parmrule = 1#parmname
parmname = string | "[" string "]"
cookierule = 1#cookiename
cookiename = string | "[" string "]"
```

Method and system for a foreach mechanism in a fragment link to efficiently cache portal content

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COMPUTING DEVICE 600	
FRAGMENT-SUPPORTING CACHE MANAGEMENT UNIT 602	
RULELIST DATABASE 606 CACHE ID DATABASE 612	
URI RULELIST CACHE ID CACHE INDEX 618 616	
	$\neg \mid$
DEPENDENCY DATABASE	
<u>618</u>	
OBJECT/FRAGMENT DATABASE 604	

FIG. 6A

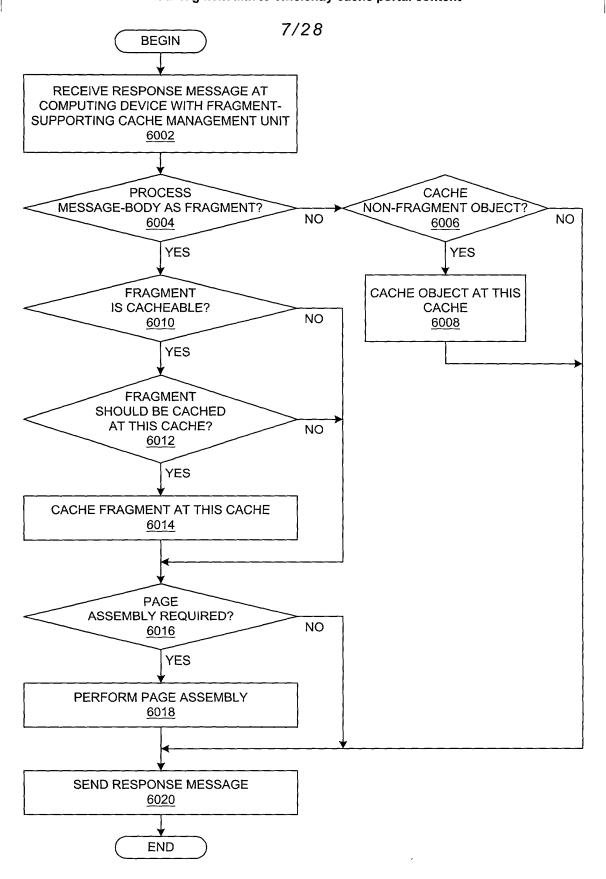


FIG. 6B

Method and system for a foreach mechanism in a fragment link to efficiently cache portal content

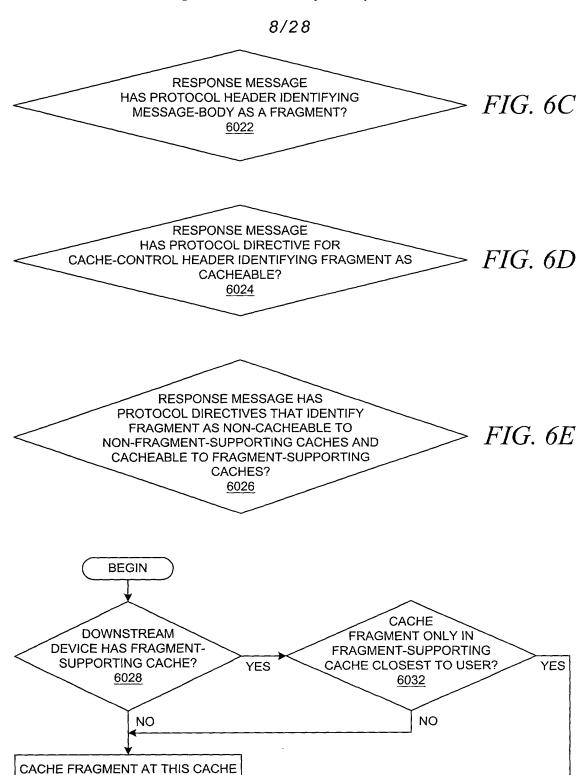


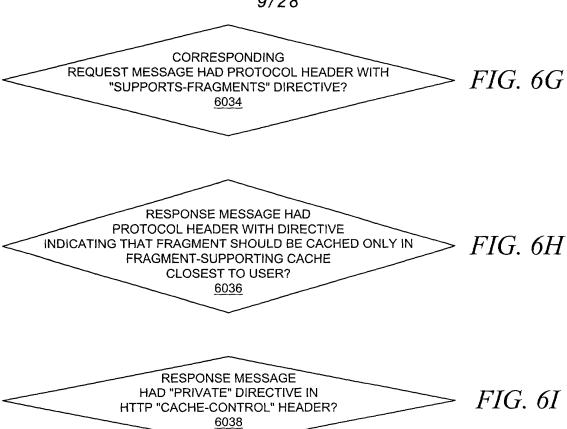
FIG. 6F

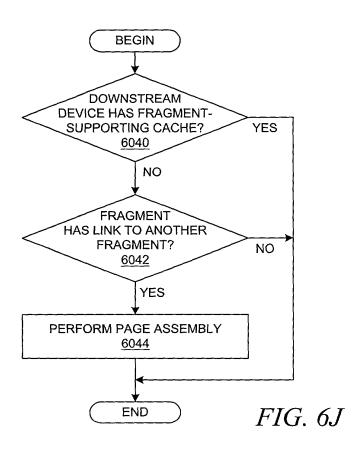
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END

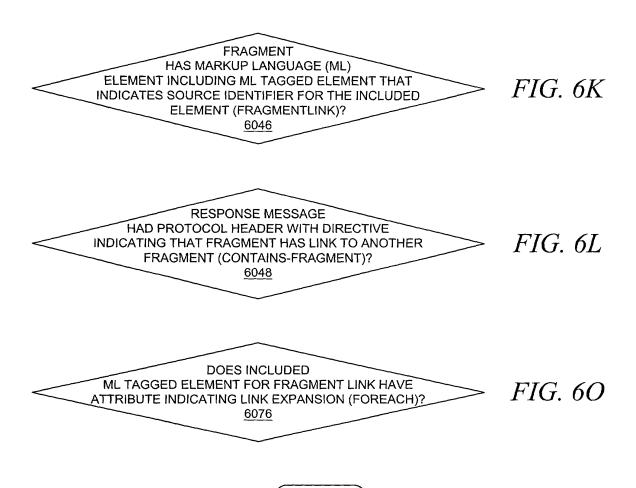
Method and system for a foreach mechanism in a fragment link to efficiently cache portal content







Method and system for a foreach mechanism in a fragment link to efficiently cache portal content



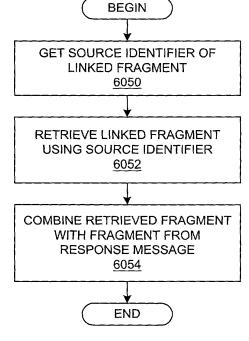
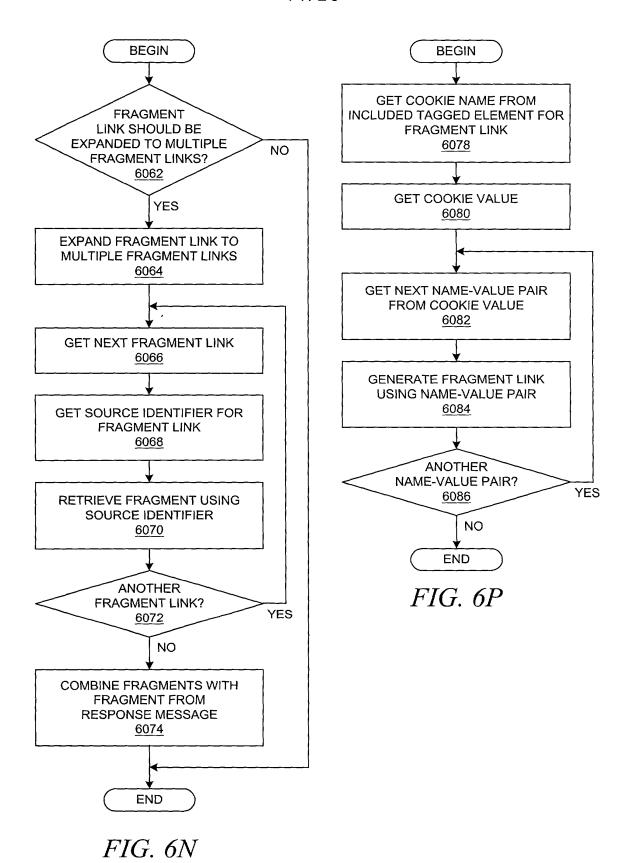
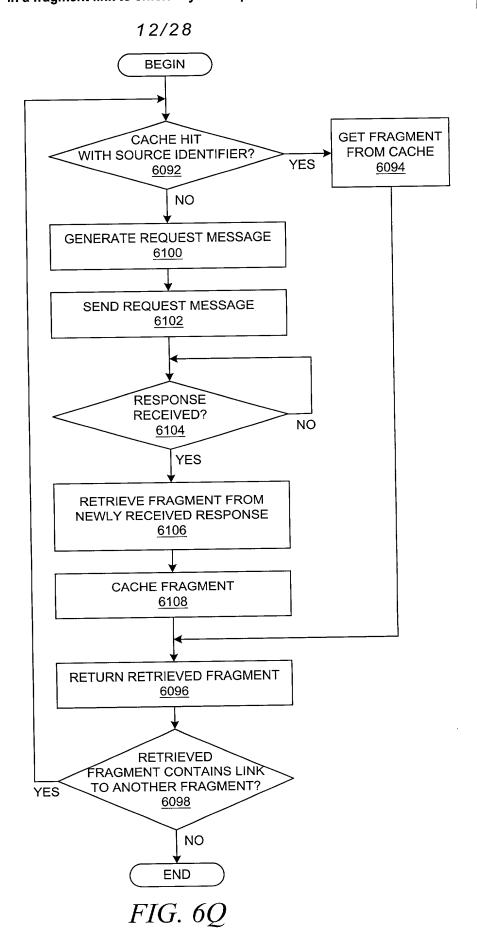


FIG. 6M

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Method and system for a foreach mechanism in a fragment link to efficiently cache portal content





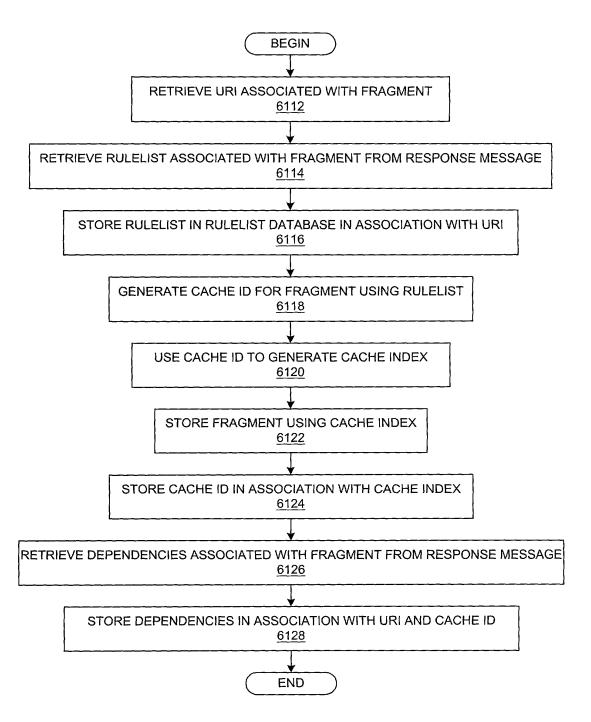
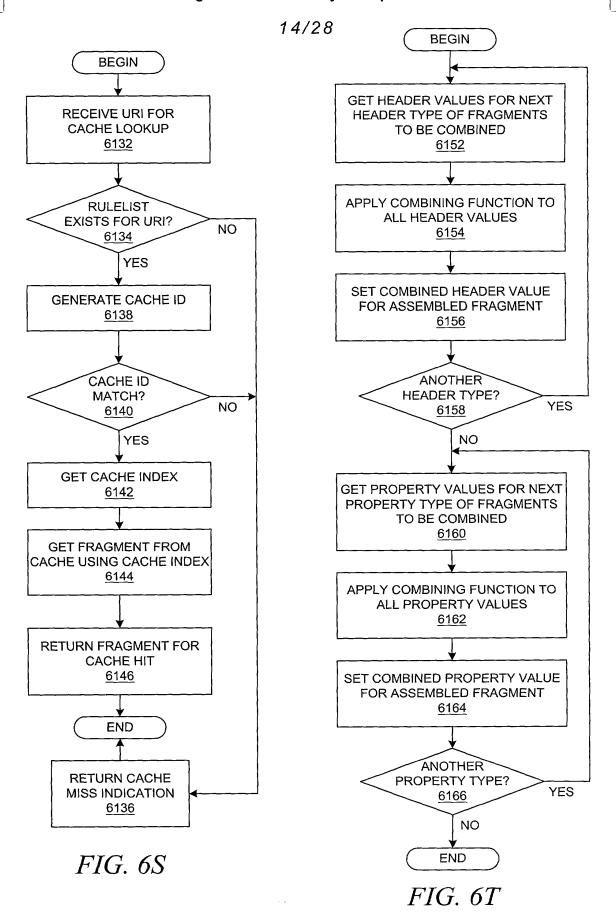


FIG. 6R

Method and system for a foreach mechanism in a fragment link to efficiently cache portal content



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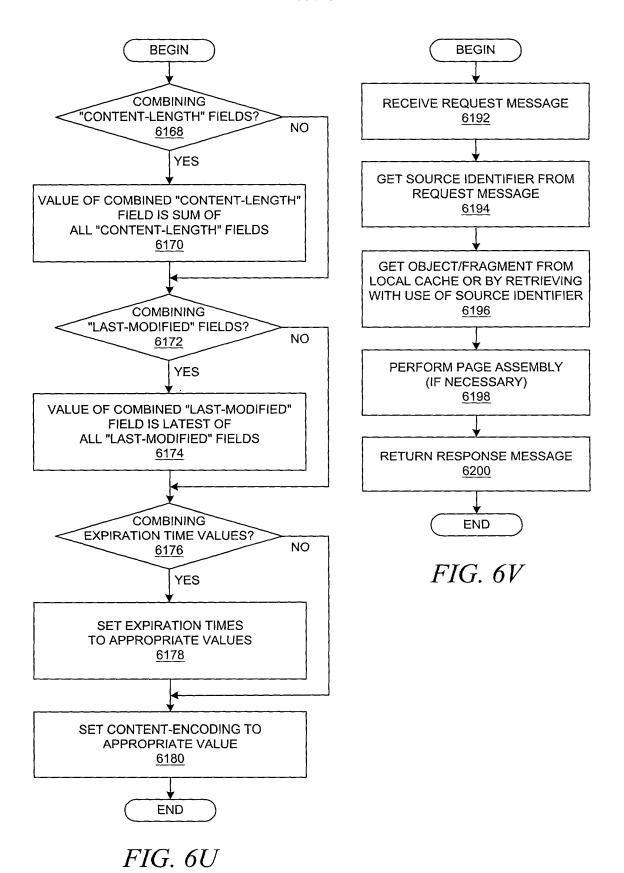
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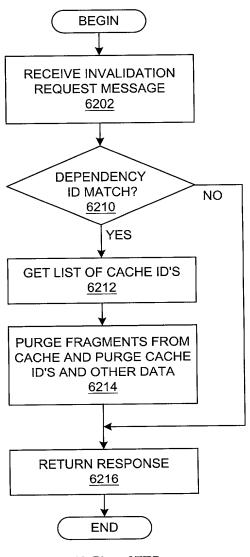
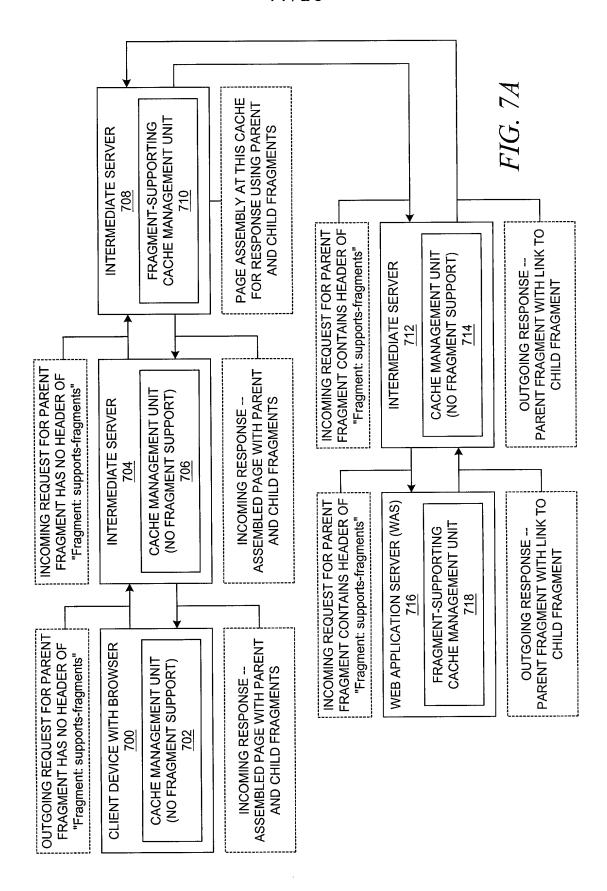
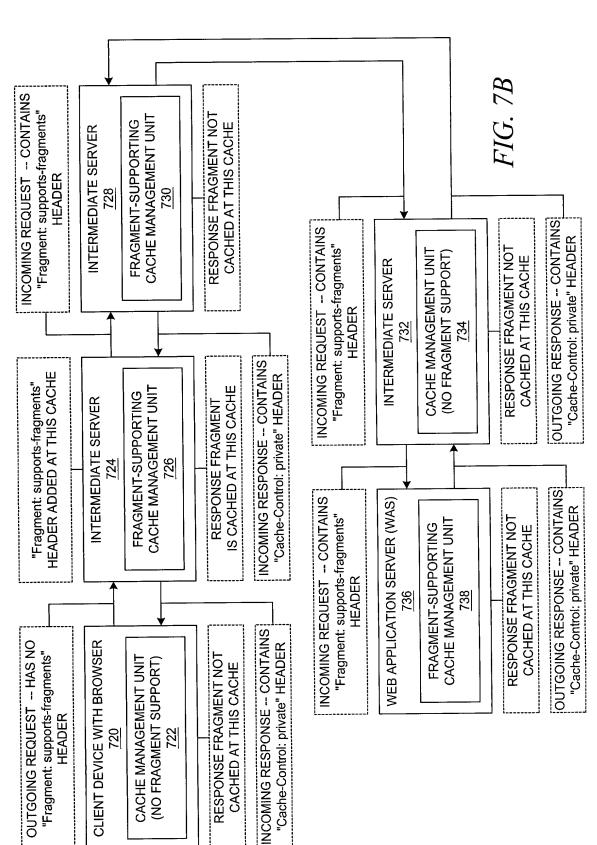


FIG. 6W

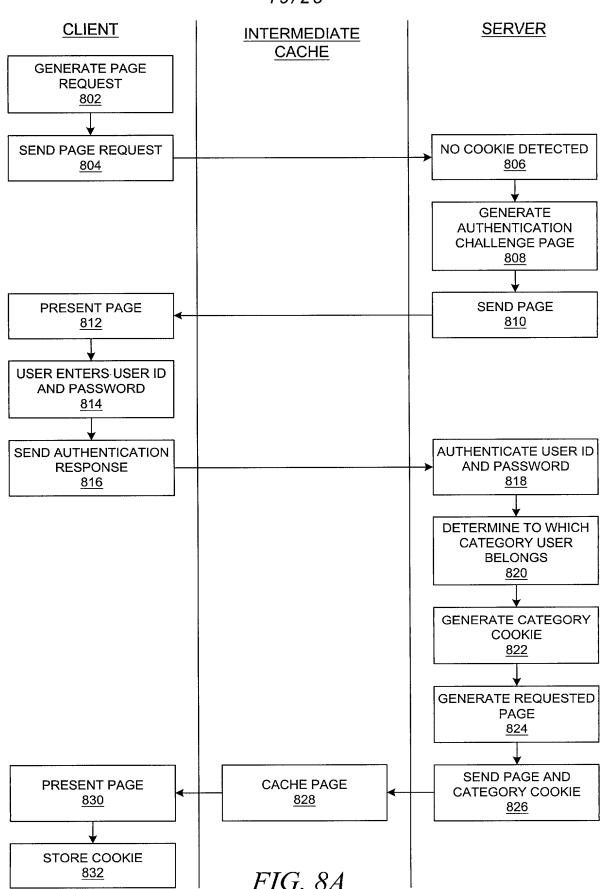


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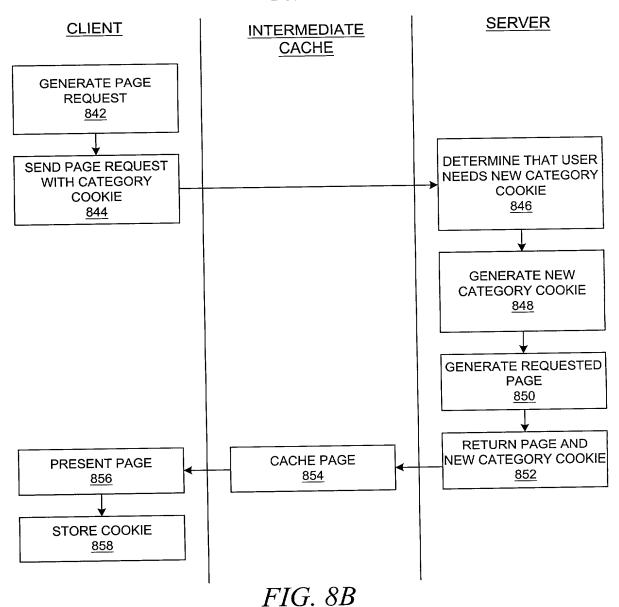
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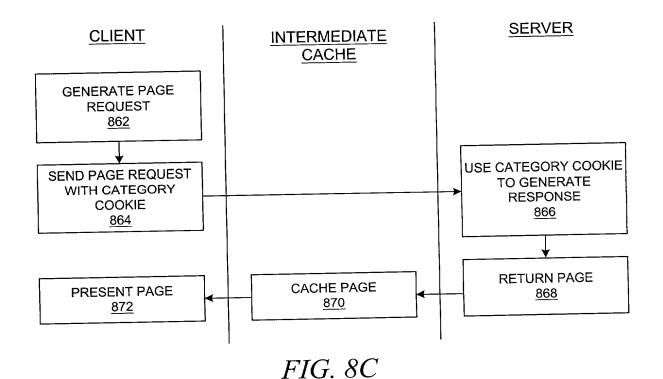
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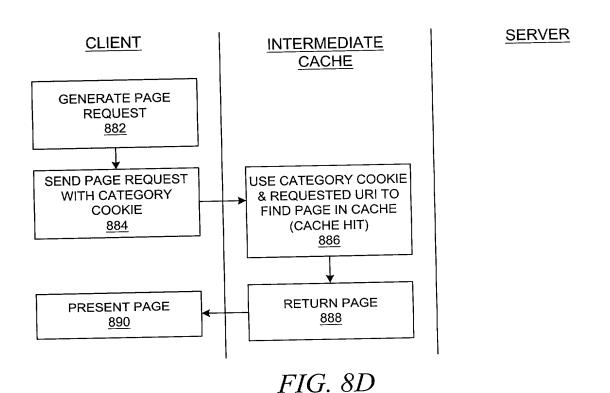
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Method and system for a foreach mechanism in a fragment link to efficiently cache portal content

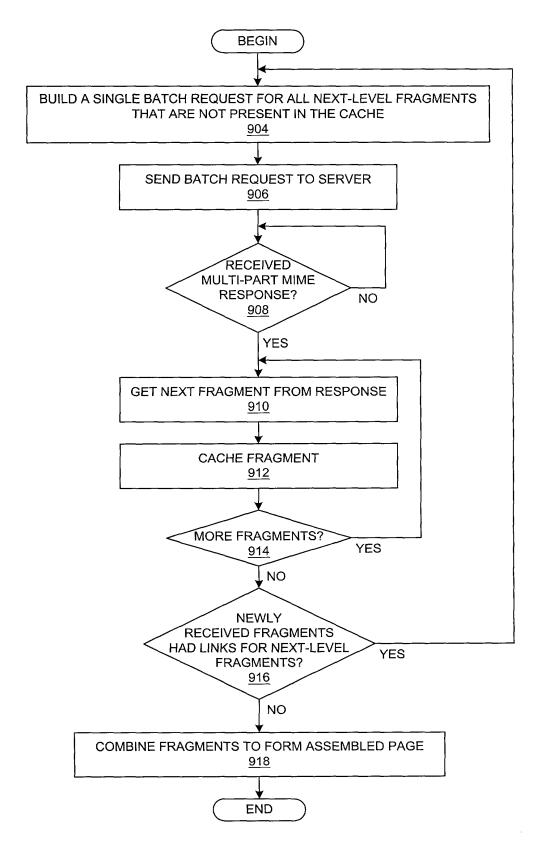


FIG. 9A

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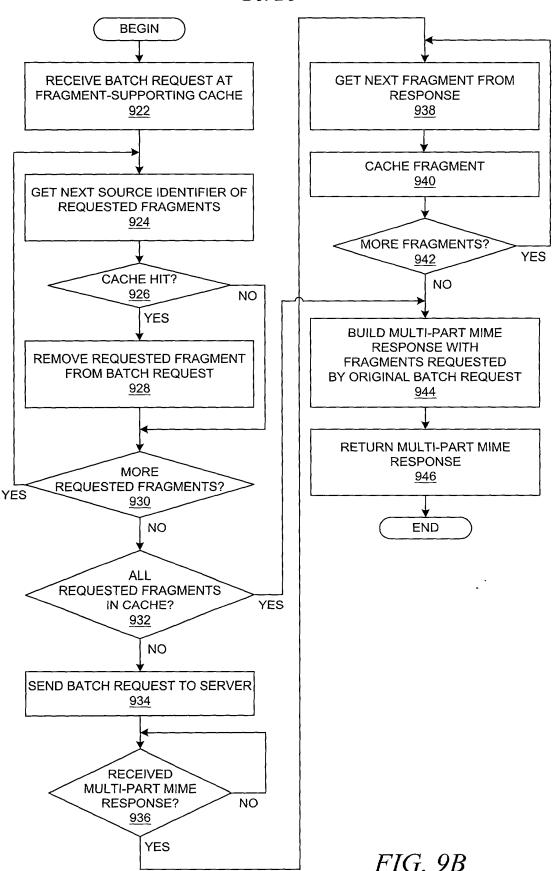
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Method and system for a foreach mechanism in a fragment link to efficiently cache portal content

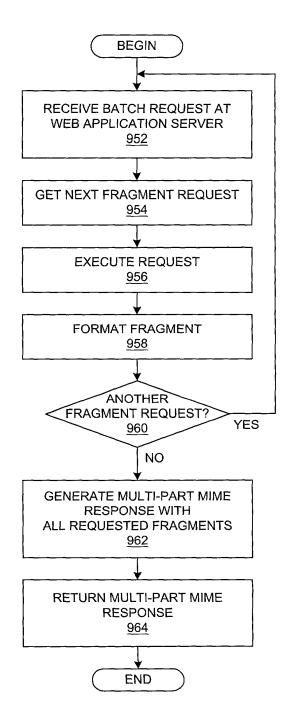
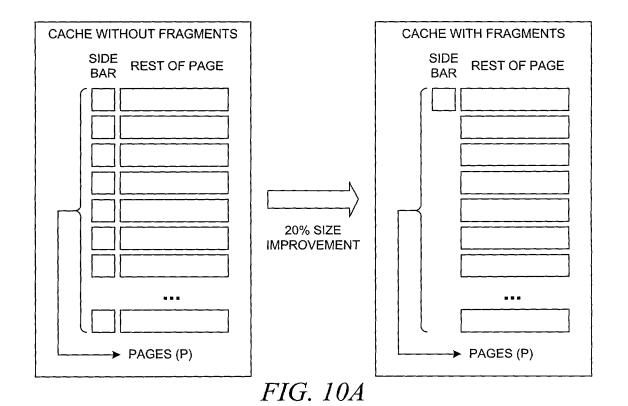
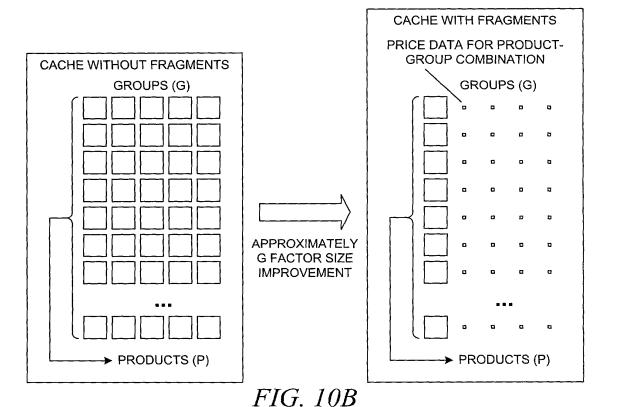


FIG. 9C





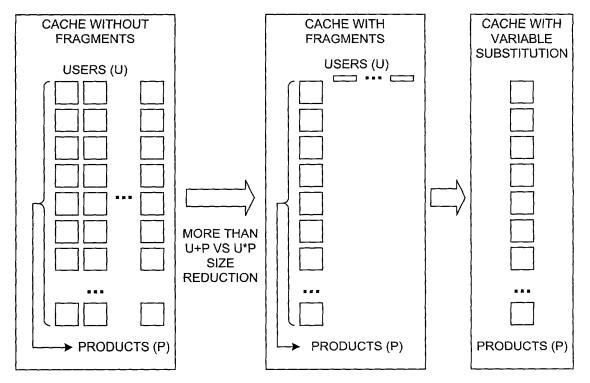


FIG. 10C

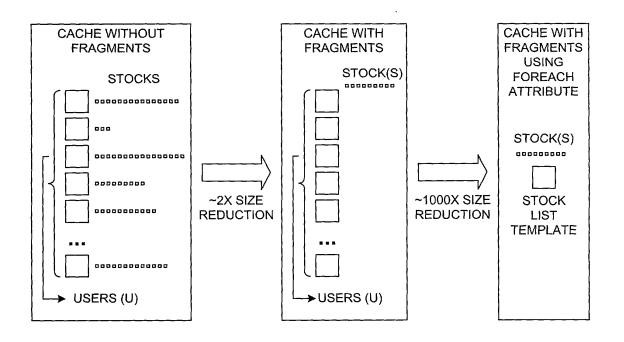
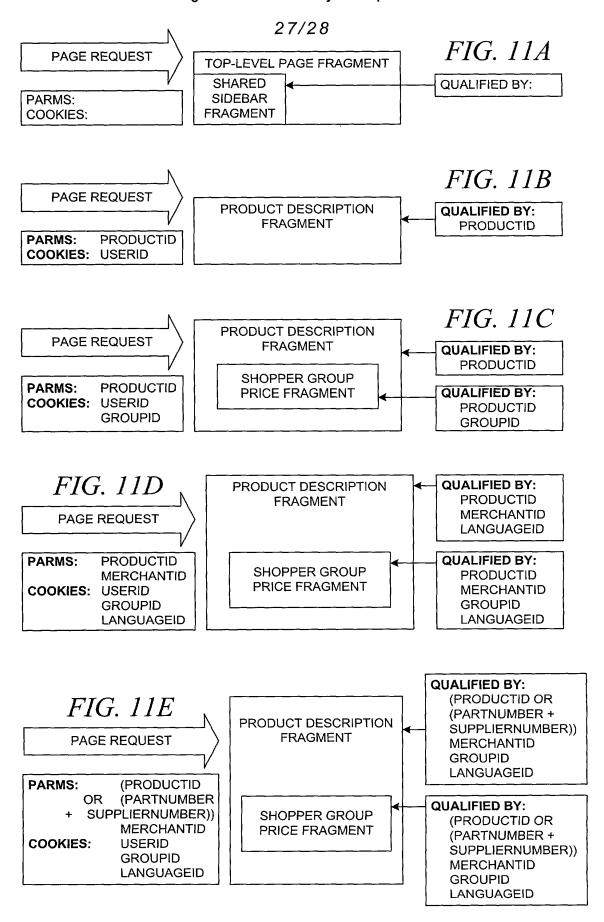


FIG. 10D

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Method and system for a foreach mechanism in a fragment link to efficiently cache portal content

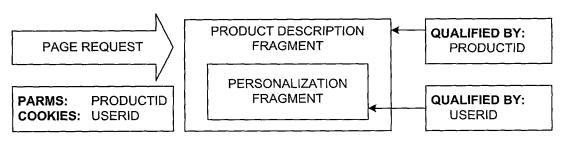
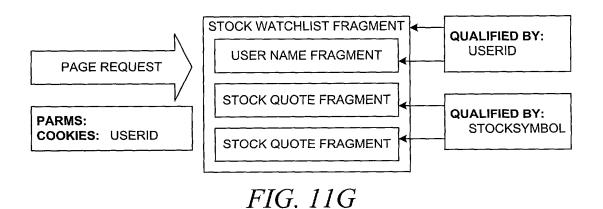


FIG. 11F



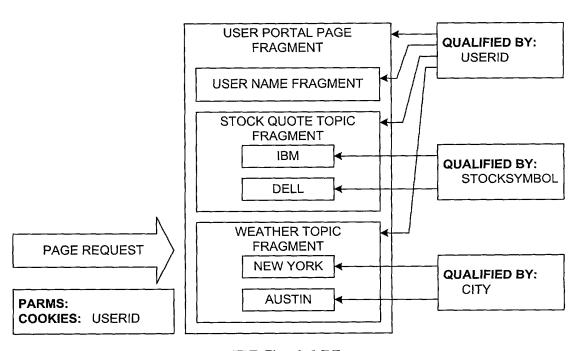


FIG. 11H